## Assignment 06

Due: Thursday, November 15, 2012 at 11:59 p.m.

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- You may want to include defined constants to help reduce the writing for the examples and tests.
- For this and all subsequent assignments, you are expected to use the design recipe when writing functions from lesign recipe, including the definition of constants and helper scratch. Be sure to follo **a**e appropriate. functions that include t
- Fignment description. The purpose should be written in your own Do not copy the purpos words and include refer er names of your functions.
- r own work. Do not look up either full or partial solutions on the The solutions you subm Internet or in printed so
- Do not send any code fi **E**urse staff. It will not be accepted by course staff as an assignment submission. Course staff will not debug code emailed to them.
- Test data for all questions will always meet the stated assumptions for consumed values.
- Read each question carefully for restrictions.
- Read each question carefully terrestrictions.

  Read the course Web page for more information on assignment policies and how to organize and submit your work. Follow the instructions in the style guide. Specifically, your solutions should be placed in files a06qY.rkt, where Y is a value from 1 to 3.
- Download the interface Assignment geProject Exam Help

Language level: Beginning Student with List Abbreviations

Coverage: Module 7

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1. A set in mathematics is defined as a collection of unique values. The union of two sets includes all numbers in each set, but where he values that are happy hosts are only included once. The union of three sets of numbers would include all numbers in all three sets, but where the values appear in more than one set, they would appear only once in the union.

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Write a function called union that consumes three lists of numbers (set-A, set-B, and set-C) where the lists consumed are in sorted, ascending order. The function should produce a list that represents the union of these three sets, in ascending order. For example (union (list 1 3 5) (list 1 2 5 6) (list 2 5 8 11)) produces (list 1 2 3 5 6 8 11). The union of an empty list with a list A, would be the list A.

2. Ryder Cup is a four-day competition between golfers from the United States and golfers from Europe. Part of the competition includes individual match-play events. In match-play, the total score of the individual golfer does not matter – the results are determined by how many holes are won. A golfer wins a hole, if he/she has a lower score than the other golfer. In match-play, the player who wins the most number of holes, wins the match. If the players win the same number of holes, then the match is said to be "halved". The holes where the golfers shoot the same score do not factor into the final result.

Write a function called ryder-cup-result that consumes two lists of natural numbers (europe and usa). The consumed lists represent the golf scores for several holes for a player from Europe and a player from USA. The function produces the string "Europe" if the europe scores result in a match-play win for that player, produces the string "USA" if the usa scores result in a match-play win for that player, and produces "Halved" if the scores from europe and usa result in a tie in match-play. You may assume that the lists are the same length.

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(ryder-cup-result (list 2 3 2 5) (list 3 2 3 5)) produces "Europe".

3. Recall that the built-in full manage of the built-in fu

You may assume that start is less than the length of the list, and that end is greater than or equal to start and less than or equal to the length of the list. For example, (sublist (list 1 2 3 4 5) 2 4) produces (list 3 4). Assignment Project Exam Help

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